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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/554,598	10/27/2005	Roland Lenormand	612.45519X00	6653
20457 7590 04/17/2007 ANTONELLI, TERRY, STOUT & KRAUS, LLP			· EXAMINER	
1300 NORTH S	SEVENTEENTH STR		FITZGERALD, JOHN P	
SUITE 1800 ARLINGTON.	VA 22209-3873		ART UNIT	PAPER NUMBER
,			2856	
SHORTENED STATUTOR	Y PERIOD OF RESPONSE	MAIL DATE	DELIVER	Y MODE
3 MONTHS		04/17/2007	PAPER	

Please find below and/or attached an Office communication concerning this application or proceeding.

If NO period for reply is specified above, the maximum statutory period will apply and will expire 6 MONTHS from the mailing date of this communication.

	Application No.	Applicant(s)			
	10/554,598	LENORMAND ET AL.			
Office Action Summary	Examiner	Art Unit			
	John Fitzgerald	2856			
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the	e correspondence address			
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS from cause the application to become ABANDO	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. § 133).			
Status					
Responsive to communication(s) filed on This action is FINAL . 2b)⊠ This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final. nce except for formal matters, p				
Disposition of Claims					
 4) Claim(s) 1-14 is/are pending in the application. 4a) Of the above claim(s) is/are withdrav 5) Claim(s) is/are allowed. 6) Claim(s) 1,3,4 and 10 is/are rejected. 7) Claim(s) 2,5-9 and 11-14 is/are objected to. 8) Claim(s) are subject to restriction and/or 	vn from consideration.				
Application Papers					
9) ☐ The specification is objected to by the Examiner 10) ☑ The drawing(s) filed on 27 October 2005 is/are: Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction 11) ☐ The oath or declaration is objected to by the Ex	a)⊠ accepted or b)⊡ objectodrawing(s) be held in abeyance. Solon is required if the drawing(s) is o	See 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).			
Priority under 35 U.S.C. § 119					
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date 10/27/05.	4) Interview Summa Paper No(s)/Mail 5) Notice of Informa 6) Other:	Date			

DETAILED ACTION

Information Disclosure Statement

1. The listing of references in the specification is not a proper information disclosure statement. 37 CFR 1.98(b) requires a list of all patents, publications, or other information submitted for consideration by the Office, and MPEP § 609.04(a) states, "the list may not be incorporated into the specification but must be submitted in a separate paper." Therefore, unless the references have been cited by the examiner on form PTO-892, they have not been considered.

Claim Rejections - 35 USC § 112

- 2. The following is a quotation of the first paragraph of 35 U.S.C. § 112:
 - The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.
- 3. Claim 10 is rejected under 35 U.S.C. § 112, first paragraph, as failing to comply with the enablement requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to enable one skilled in the art to which it pertains, or with which it is most nearly connected, to make and/or use the invention. Namely, the Applicant cited two references in the instant specification (Berryman and Bruggeman) in reference to "mean field theory," without providing a satisfactory exposition of the theory. Without the cited references, the Examiner finds that there is insufficient support for enablement of one of ordinary skill in the art to apply "mean field theory" as recited in claim 10.

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Claim Rejections - 35 USC § 103

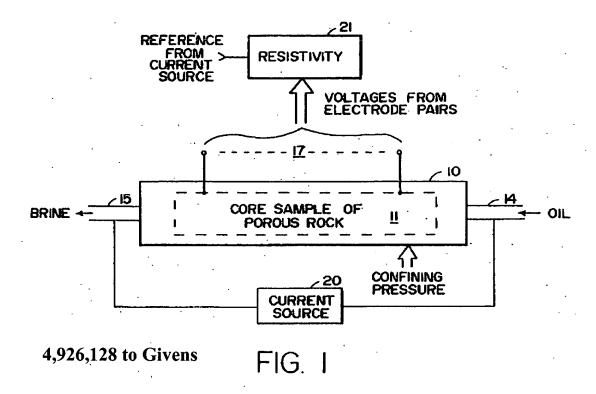
4. The following is a quotation of 35 U.S.C. § 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

- (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claims 1, 3, 4 are rejected under 35 U.S.C. § 103(a) as being unpatentable over US 4,926,128 to Givens and U.S. 2,583,284 to Wyllie et al. Givens discloses a method of determining the formation factor of an underground zone from drill cuttings taken to the surface including a cell (10) (see Fig. 1 below) to contain the cuttings and having electrodes (17) wherein the cell is filled with a first electrolyte solution (preferably brine) to saturate the cuttings and measuring the conductivity/resistivity (note: conductivity is the reciprocal of resistivity); discharging the first electrolyte solution with a second electrolyte solution (immiscible and oppositely conducting, thus meeting the limitations of claims 3 and 4) and another resistivity/conductivity measurement is made (i.e. cutting saturated with the first electrolyte) and deducing the formation factor (FF) from the resistivity/conductivity measurements. However, Givens does not expressly disclose the cleaning of the cutting before setting them in the cell or the relative concentrations of the first and second electrolyte solutions (claims 3 and 4). Wyllie et al. disclose a method of determining the FF employing many of the method steps recited, as well as that it is customary to wash/clean the drill cuttings before any measuring tests to remove "fines and mud" as well as remove residual "oil and salts." It would have been obvious to one having ordinary skill in the art at the time the invention was made to wash or clean the drill

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cuttings thus removing stray factors that might interfere/offset the resistivity/conductivity measurements (i.e. remove contaminants) (Wyllie et al.: col. 6, line 63 to line 70).



Allowable Subject Matter

6. Claims 2, 5-9 and 11-14 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

7. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Applicant is invited to review PTO form 892 accompanying this Office Action listing Prior Art relevant to the instant invention cited by the Examiner.

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8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Fitzgerald whose telephone number is (571) 272-2843. The examiner can normally be reached on Monday-Friday from 7:00 AM to 3:30 PM. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hezron Williams, can be reached on (571) 272-2208. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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